ABSTRACT

[1052] The disclosed embodiments provide a method and apparatus for interoperability between CTX and DTX communications systems during transmissions of silence or background noise[FIG. 2]. Continuous eighth rate encoded noise frames are translated to discontinuous SID frames for transmission to DTX systems(402-410). Discontinuous SID frames are translated to continuous eighth rate encoded noise frames for decoding by a CTX system(602-606). Applications of CTX to DTX interoperability comprise CDMA and GSM interoperability (narrowband voice transmission systems), CDMA next generation vocoder (The Selectable Mode Vocoder) interoperability with the new ITU-T 4 kbps vocoder operating in DTX-mode for Voice Over IP applications, future voice transmission systems that have a common speech encoder/decoder but operate in differing CTX or DTX modes during speech non-activity, and CDMA wideband voice transmission system interoperability with other wideband voice transmission systems with common wideband vocoders but with different modes of operation (DTX or CTX) during voice non-activity.